What is claimed is:

- 1. A system for analyzing and managing spam e-mail, comprising:
 - a database for storing rules for determining whether e-mail messages are spam;
- a message processor that processes e-mail messages to determine whether any rules within the database are matched by the messages and to attach data to the messages regarding the rules that are matched; and
- a spam analyzer that analyzes the data to determine attributes regarding the rules, and to dynamically modify rules within the database based on the data.

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- 2. The system of claim 1 wherein the database stores the rules in one or more tables.
- 3. The system of claim 1 wherein the attributes comprise statistics.
- 15 4. The system of claim 3 wherein the statistics comprise at least one of the following: last updated, last hit, total hits, spam hits, nonspam hits, and false positive hits.
 - 5. The system of claim 1 wherein each rule in the database is assigned an identification number and a score that is used to determine whether an e-mail message is spam.

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- 6. The system of claim 1 wherein the rules include at least one of the following: subject heading rules, from heading rules, body rules and HTML rules.
- 7. The system of claim 5 wherein the system retires rules from the database if such rules are not matched for a predetermined period of time.
 - 8. The system of claim 7 wherein the predetermined period of time is 30 days.
 - 9. The system of claim 1 wherein the system is implemented on a mail server in a network.

- 10. The system of claim 1 wherein the system is implemented over a distributed network having a plurality of mail servers.
- 11. The system of claim 10 further comprising:
- 5 a program for selecting rules that have been matched within a predetermined period of time; and

wherein the system replicates the selected rules over the plurality of mail servers.

- 12. The system of claim 11 wherein the program stores the selected rules within files that are replicated over the plurality of mail servers.
 - 13. The system of claim 12 wherein the files are .db files.
- 14. The system of claim 1 wherein the message processor attaches the data to a message by generating an encoded spam information string indicating the rules that are matched and attaching the string to the message.
 - 15. The system of claim 14 wherein the message processor further stores encoded information strings for a plurality of messages within a log file, which is periodically communicated to the spam analyzer.
 - 16. The system of claim 14 further comprising:
 an online processing tool, which allows a user to view unfiltered spam messages
 submitted by clients and to decode and display the spam information strings associated with the
 messages.
 - 17. The system of claim 15 wherein the online processing tool is further adapted to allow modification of the rules.

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- 18. The system of claim 1 wherein the spam analyzer further calculates a total score for each e-mail message based on the rules matched by the message and identifies e-mail messages as spam based on their respective total score.
- 5 19. A method for analyzing and managing spam e-mail, comprising: storing rules for determining whether e-mail messages are spam; receiving e-mail messages; determining whether any rules are matched by a message; recording data regarding rules that are matched by the message; attaching the data to the message; analyzing the data to determine attributes regarding the rules; and dynamically modifying the rules based on the data.
- 20. The method of claim 19 wherein the data is recorded in encoded spam information strings.
 - 21. The method of claim 20 wherein the encoded spam information strings are attached to the messages as headers.
- 20 22. The method of claim 19 wherein the attributes comprise statistics.
 - 23. The method of claim 22 wherein the statistics comprise at least one of the following: last updated, last hit, total hits, spam hits, nonspam hits, and false positive hits.
- 25 24. The method of claim 19 wherein the rules are stored within a relational database.
 - 25. The method of claim 24 wherein the rules include at least one of the following: subject heading rules, from heading rules, body rules and HTML rules.

- 26. The method of claim 24 wherein each rule in the database is assigned an identification number and a score that is used to determine whether an e-mail is a spam e-mail.
- The method of claim 26 further comprising:
 calculating a total score for each e-mail message; and
 identifying an e-mail message as spam based on its total score.
- 28. The method of claim 27 further comprising:
 retiring rules from the database if such rules are not matched for a predetermined period
 of time.
 - 29. The method of claim 28 wherein the predetermined period of time is 30 days.
- 30. The method of claim 19 wherein the e-mails are received over a distributed network having a plurality of mail servers.
- 31. The method of claim 30 further comprising:
 selecting rules that have been matched within a predetermined period of time;
 storing the selected rules within files; and
 replicating the files over the plurality of mail servers.
 - 32. The method of claim 19 further comprising:
 receiving reports regarding unidentified commercial e-mail messages; and
 modifying the rules based on the reports.

33. The method of claim 19 further comprising:
receiving reports regarding e-mails mistakenly identified as spam e-mail; and
modifying the rules based on the reports.

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